

## WEST Search History





DATE: Thursday, April 07, 2005

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b>Hit Count</b>
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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ*

<input type="checkbox"/>	L1	09/877748	1
<input type="checkbox"/>	L2	L1 and 4Kb	0
<input type="checkbox"/>	L3	09/877748 and greater	1
<input type="checkbox"/>	L4	09/877748 and mutant mtDNA	0
<input type="checkbox"/>	L5	WO 9632500	4
<input type="checkbox"/>	L6	L5 and (mitochondrial DNA or mt-DNA)	1
<input type="checkbox"/>	L7	L4 and (mitochondrial DNA or mt-DNA)	0
<input type="checkbox"/>	L8	L5 and (mitochondrial DNA or mt-DNA)	1
<input type="checkbox"/>	L9	60027883.pn.	1
<input type="checkbox"/>	L10	6027883.pn.	2
<input type="checkbox"/>	L11	L10 and deletion	0
<input type="checkbox"/>	L12	L10 and mutation	2
<input type="checkbox"/>	L13	(mitochondrial DNA or mt-DNA) and (deletion)	1273
<input type="checkbox"/>	L14	L13 and ((mutation or deletion) near (kb or kilobase))	16
<input type="checkbox"/>	L15	L14 and PCR	16
<input type="checkbox"/>	L16	L15 and ((short PCR) or (PCR near minute))	2
<input type="checkbox"/>	L17	l13 and (mutant or variant)	1095
<input type="checkbox"/>	L18	L17 and (mutant near primer)	50
<input type="checkbox"/>	L19	L18 and ((mutation or deletion) near (kb or kilobase))	1
<input type="checkbox"/>	L20	L18 and 14	50
<input type="checkbox"/>	L21	L18 and l14	1
<input type="checkbox"/>	L22	(l14 or l15) and mutant	14
<input type="checkbox"/>	L23	l13 and short PCR	7
<input type="checkbox"/>	L24	L13 and (short near polymerase chain reaction)	0
<input type="checkbox"/>	L25	L13 and (short near (amplification or extension))	12
<input type="checkbox"/>	L26	L13 and (short near (anneal\$ or cycl\$))	11

END OF SEARCH HISTORY

Detection of the ageing-associated 5-Kb common

**deletion of mitochondrial DNA**

in blood and bone marrow of hematologically normal adults.  
Absence of the **deletion** in clonal bone marrow disorders.

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CORPORATE SOURCE: Department of Hematology, Oncology, and Clinical Immunology, Heinrich-Heine-University, Dusseldorf, Germany.  
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AB In recent years, a variety of chronic degenerative diseases that mainly involve brain, heart and muscle have been shown to result from mutations in **mitochondrial DNA** (mtDNA). A 4977-bp **deletion** (mtDNA-4977, also known as the common **deletion**) is the most frequent abnormality in patients with mitochondrial myopathies. A low percentage of mtDNA-4977 is also found in various tissues of normal ageing individuals. Accumulation of this **deletion** as well as other mtDNA **deletions** and point mutations is thought to contribute to normal cell ageing. We examined blood and bone marrow samples of 63 hematologically normal patients undergoing sternotomy for cardiac surgery. Using **short-cycle PCR**, which favors the **amplification** of molecules carrying large **deletions**, we detected the common **deletion** in 22 (35%) of the patients. In one of the probands, a hitherto unknown 4867-bp **deletion** was identified (nt 8561-13429). In each sample the percentage of mtDNA-4977 was very low, since detection always required primer-shift reamplification of a primary PCR product. Because mtDNA molecules with large **deletions** are known to be progressively enriched through their tendency to replicate more rapidly than full-size mtDNA, the small amount of mtDNA-4977 detected is likely to be concentrated in a small fraction of cells. The common **deletion** was not detectable in 20 patients with myelodysplastic syndromes (MDS), 20 patients with acute myeloid leukemia (AML), and 10 patients with chronic myeloid leukemia (CML). The seeming

Reference  
Needed.